#### We Back the Bay!



Amanda Rinehart Education Program Manager

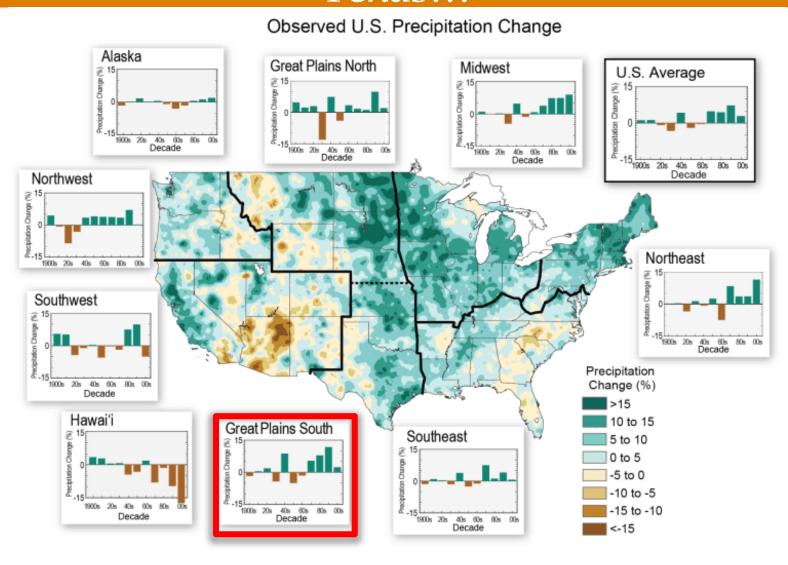
#### Houston, we have a problem!





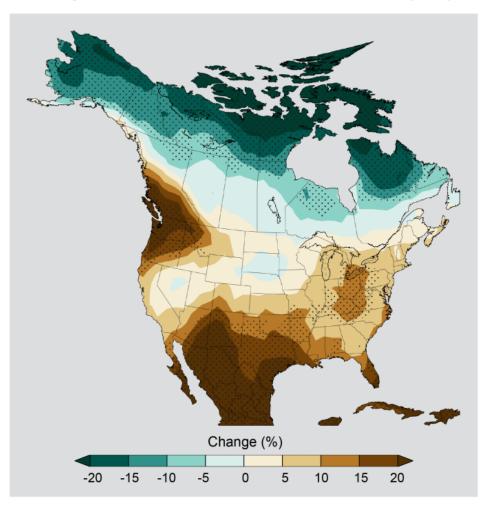
Inspiration and education through unique coastal experiences

# More precipitation predicted for the coast of Texas...

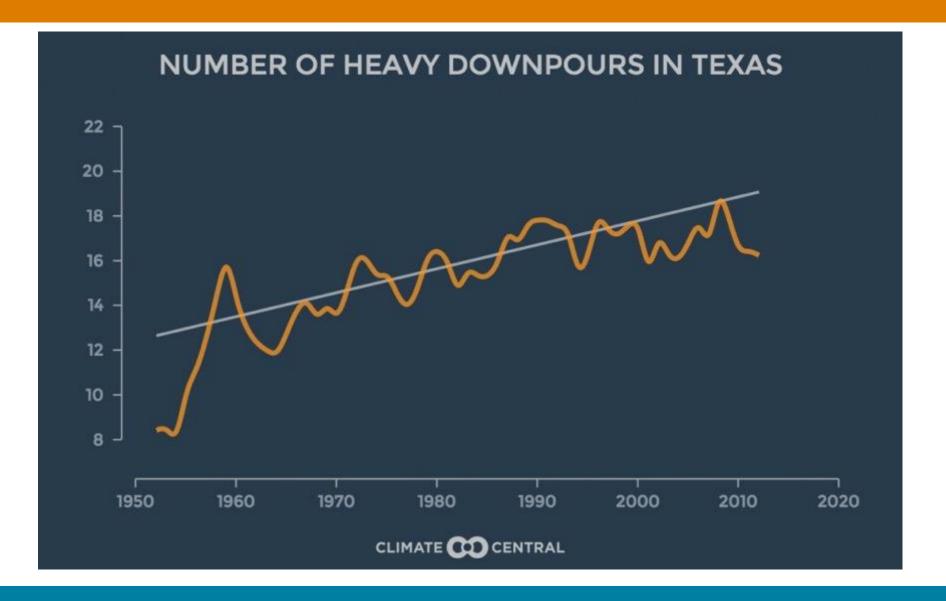


# But more consecutive dry days...

Change in Maximum Number of Consecutive Dry Days



#### More extreme weather is in our future



#### Houston, we have a problem!



Photo: Flickr user Jan Buchholtz

#### We Back the Bay!

Create **awareness** of impact of development on water quality of the Bay

Develop **critical thinking** skills to mitigate pollution and surface water runoff

Create **action** to reduce surface water runoff from school campuses







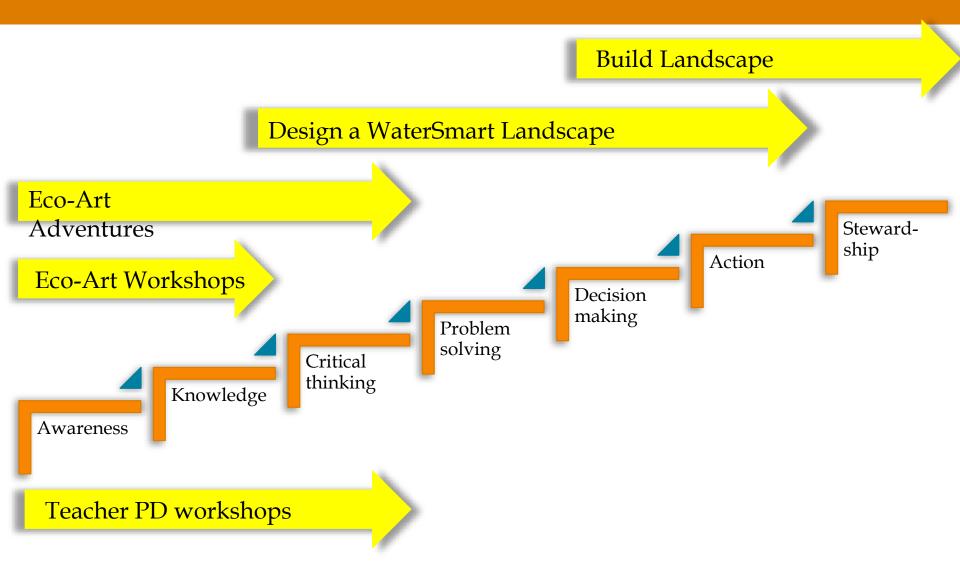






Artist Boat received financial support from the EPA under an assistance Agreement.

#### EPA's Environmental Education Continuum



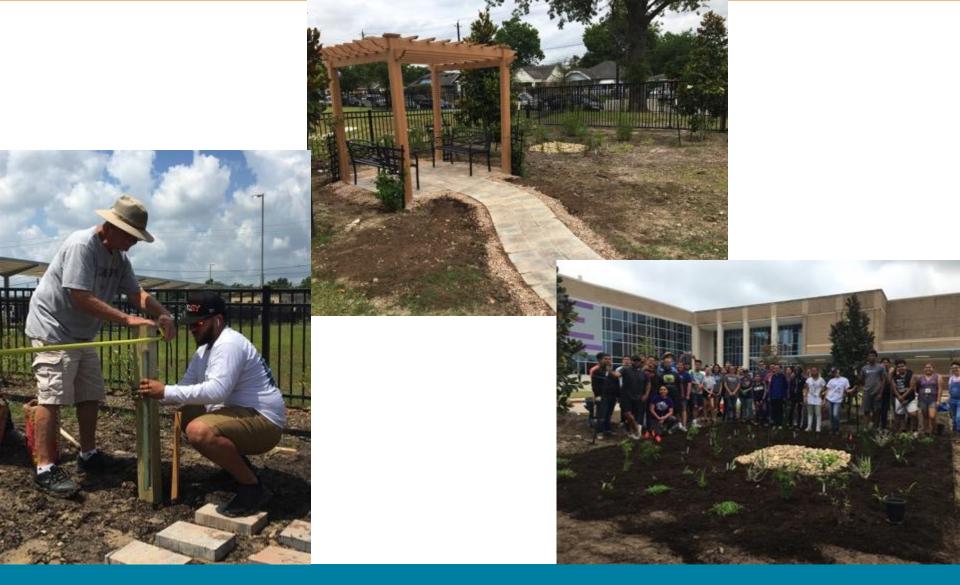
## Outreach using Back the Bay



10% of their budget had to be used to promote positive action using "Back the Bay"



#### Northside HS



#### Westside HS







# Odyssey Academy





Inspiration and education through unique coastal experiences

#### Dickinson HS



Inspiration and education through unique coastal experiences

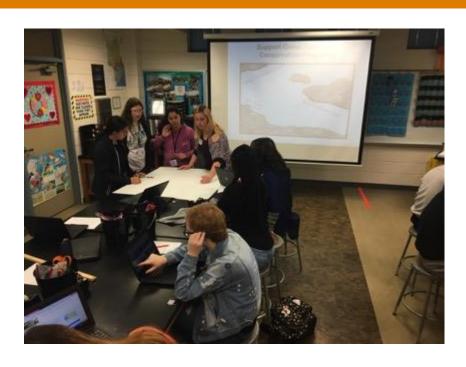
# Harmony School of Technology



Inspiration and education through unique coastal experiences

# We Back the Bay Outreach









## We Back the Bay Outreach



https://www.youtube.com/watch?v=zbI-QPekeoc

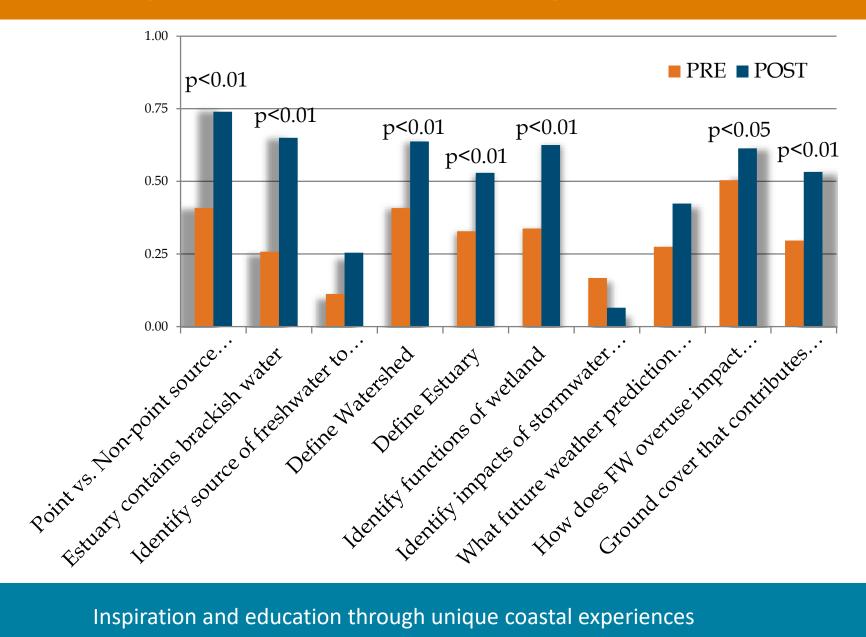


## Evaluation of program goals

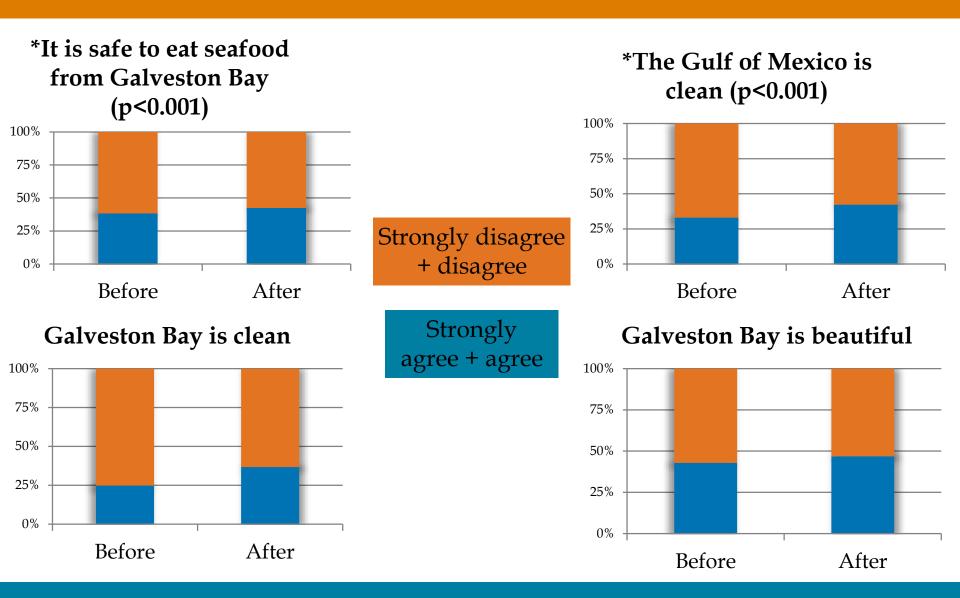
We administered pre/post survey and assessment using survey monkey

We Back the Bay Post Survey 2018-2019				
Please give us your opinion BEFORE and AFTER participation in We Back the Bay				
* 11. What was your opinion of the following statements BEFORE participation in We Back the Bay:				
	Strongly Disagree	Disagree	Agree	Strongly Agree
Galveston Bay area is beautiful.	0	0	0	0
Galveston Bay water is clean.	$\circ$	$\circ$	$\circ$	$\circ$
I would swim in Galveston Bay.	0	0	$\circ$	0
It is safe to eat seafood from Galveston Bay.	$\circ$	$\circ$	$\circ$	$\circ$
The Gulf of Mexico water is clean.	0	$\circ$	0	0
I would swim in the Gulf of Mexico.	$\circ$	$\circ$	$\bigcirc$	$\circ$
It is safe to eat seafood from the Gulf of Mexico.	0	0	0	0

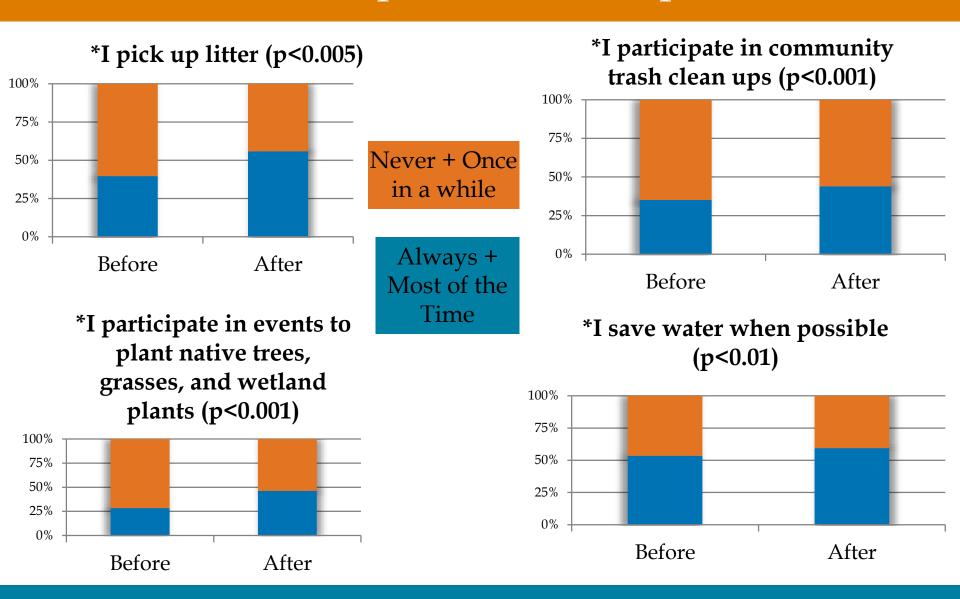
## Knowledge increased following participation



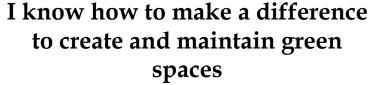
# Attitudes improved following participation

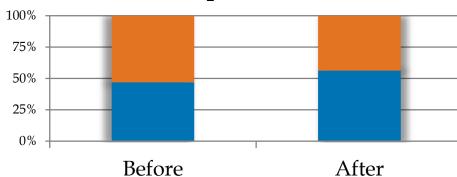


## Stewardship behaviors improved

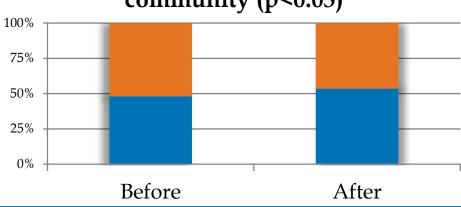


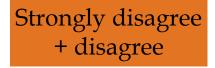
# Students empowered to impact the Bay

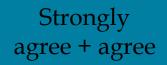




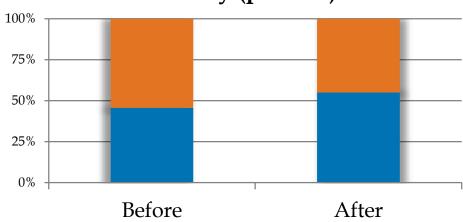
\*I know how to make a difference to impact flooding in my community (p<0.05)







\*I know how to make a difference to impact water quality of Galveston Bay (p<0.005)



#### We Back the Bay!

Create **awareness** of impact of development on water quality of the Bay

Develop **critical thinking** skills to mitigate pollution and surface water runoff

Create **action** to reduce surface water runoff from school campuses













Artist Boat received financial support from the EPA under an assistance Agreement.

# Excerpt from dedication speech by Alex Masewicz, Westside High School

"....I think the reason people don't try to help, whether it's with the environment or with their neighbor, is because they think it won't make a difference. After this experience, I learned that trying to help the planet, even in a small way, is a lot more productive then not doing anything at all. Through this project within our community, young people have been encouraged and energized about helping the environment, and that is something they can share with their friends, families, and one day, their kids, spreading the message about maintaining and loving this planet."

